

**TMX1 antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14893****Specification****TMX1 antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">Q9H3N1</a>
Other Accession	<a href="#">NM_030755</a> , <a href="#">NP_110382</a>
Reactivity	Human, Pig, Horse, Bovine, Dog
Predicted	Human, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31kDa KDa

**TMX1 antibody - C-terminal region - Additional Information****Gene ID** 81542

Alias Symbol	<b>DKFZp564E1962, PDIA11, TMX, TXNDC, TXNDC1</b>
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**Other Names**

Thioredoxin-related transmembrane protein 1, Thioredoxin domain-containing protein 1, Transmembrane Trx-related protein, TMX1, TMX, TXNDC, TXNDC1

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-TMX1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

TMX1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**TMX1 antibody - C-terminal region - Protein Information**

Name TMX1 {ECO:0000303|PubMed:37648867, ECO:0000312|HGNC:HGNC:15487}

**Function**

Thioredoxin domain-containing protein that participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyze dithiol-disulfide exchange reactions (PubMed:<a href="http://www.uniprot.org/citations/11152479" target="\_blank">11152479</a>, PubMed:<a href="http://www.uniprot.org/citations/37648867" target="\_blank">37648867</a>). Acts as a key inhibitor of the alternative triglyceride biosynthesis pathway by inhibiting the activity of TMEM68/DIESL at the endoplasmic reticulum, thereby restricting accumulation of triacylglycerol (PubMed:<a

href="http://www.uniprot.org/citations/37648867" target="\_blank">37648867

The alternative triglyceride biosynthesis pathway mediates formation of triacylglycerol from diacylglycerol and membrane phospholipids (PubMed:[37648867](http://www.uniprot.org/citations/37648867)). Acts as a protein disulfide isomerase by catalyzing formation or reduction of disulfide bonds (PubMed:[22228764](http://www.uniprot.org/citations/22228764), PubMed:[29932915](http://www.uniprot.org/citations/29932915)). Specifically mediates formation of disulfide bonds of transmembrane proteins at the endoplasmic reticulum membrane (PubMed:[22228764](http://www.uniprot.org/citations/22228764)). Involved in endoplasmic reticulum-associated degradation (ERAD) via its protein disulfide isomerase activity by acting on folding-defective polypeptides at the endoplasmic reticulum membrane (PubMed:[29932915](http://www.uniprot.org/citations/29932915)). Acts as a negative regulator of platelet aggregation following secretion in the extracellular space (PubMed:[30425049](http://www.uniprot.org/citations/30425049)). Acts as a regulator of endoplasmic reticulum- mitochondria contact sites via its ability to regulate redox signals (PubMed:[27502484](http://www.uniprot.org/citations/27502484), PubMed:[27502484](http://www.uniprot.org/citations/31304984), PubMed:[31304984](http://www.uniprot.org/citations/31304984)). Regulates endoplasmic reticulum- mitochondria Ca(2+) flux (PubMed:[27502484](http://www.uniprot.org/citations/27502484)).

### Cellular Location

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Mitochondrion membrane; Single-pass type I membrane protein. Secreted. Note=Predominantly found in the endoplasmic reticulum (PubMed:11152479). Secreted in the extracellular space following thrombin stimulation (PubMed:30425049). Localizes to mitochondria-associated endoplasmic reticulum membrane (MAM); palmitoylation is required for MAM localization (PubMed:22045338, PubMed:27502484, PubMed:31304984).

### Tissue Location

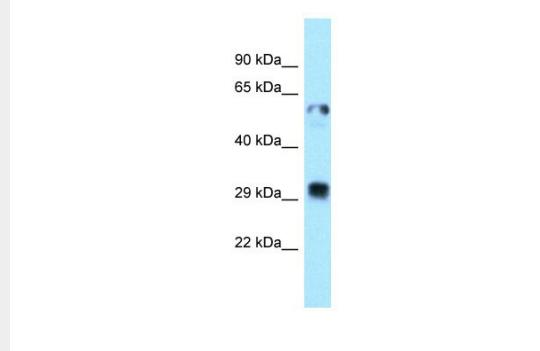
Ubiquitous (PubMed:11152479). Highly expressed in kidney, liver, placenta and lung (PubMed:11152479)

### TMX1 antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### TMX1 antibody - C-terminal region - Images



WB Suggested Anti-TMX1 Antibody Titration: 1.0 µg/ml  
Positive Control: Fetal Lung

#### **TMX1 antibody - C-terminal region - References**

- Matsuo Y., et al. J. Biol. Chem. 276:10032-10038(2001).  
Clark H.F., et al. Genome Res. 13:2265-2270(2003).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Otsuki T., et al. DNA Res. 12:117-126(2005).  
Bechtel S., et al. BMC Genomics 8:399-399(2007).